mComet™ for Android™

User Guide

for Release 1.0.4.4

About mComet

Actsoft mComet User Guide

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Statement of Accuracy

Every effort has been made to ensure that the information in this document is complete and accurate at the time of printing. However, the information in this document is subject to change without notice.

Supported Devices

Handsets

mComet for Android™ Release 1.0.4.4 should be used with the following Android devices:

Galaxy Tab	HTC Hero	HTC View 4G	Motorola Droid A855	Motorola i1 Opus One
Motorola Atrix 2		Motorola Admiral	Motorola Backflip	Motorola XOOM
Motorola Droid 2		Motorola Droid X	Sanyo Zio	Samsung Captivate
Samsung Gem		Samsung Mesmerize	Dell Streak 5	

Peripherals

mComet for Android Release 1.0.4.4 can be used with the following hardware peripheral(s):

Pens – *HTC Scribe Pen*

Handset Functionality

Instructions in this document are intended to be independent of any particular handset brand, make or model. As such, only the software interface will be shown in most instances. In this release, the HTC Hero is used for illustrations. Please see the user manual for your handset for specific instructions on button placement and features.

Document Ordering

To order a copy of this or any other document in the Actsoft documentation suite, contact your sales representative. Documentation will be supplied to clients of Actsoft, Inc. only.

Technical Support and Training

For technical support, contact Actsoft at:

Email:	**mailto:support@comettracker.com**
Phone:	**813.936.1511**
Fax:	**813.600.4539**
Mail:	**Actsoft, Inc.** **10006 N. Dale Mabry Hwy., Ste. 100** **Tampa, FL 33618**

For training on the Actsoft product suite, contact:

Scheduling:	**813.936.2331; then select menu option 3**

Using mComet

The mComet handset application used with the *Comet Tracker* workstation application allows workers in the field to communicate efficiently with the home office. Use mComet to clock in and out of work shifts, enter information about jobs, and receive updated forms while in the field.

mComet uses built-in GPS tracking function to gather location information at specified time intervals and transmit the resulting data to the hosted server.

Purpose and Audience

This document is intended for users and administrators of the mComet cellular application. It provides the following information:

- Installation and setup
- Configuration modification
- Navigation
- Working with customized forms and orders
- Working with maps and getting directions

Detailed information on the *Comet Tracker* software is not provided in this document.

Application Requirements

- SD Card (required for downloading mComet and image/signature capture)
- Web browser installed on the Android device
- Operating system: Minimum - 2.1
- ZXing Team Barcode scanner software installed on the device (required for scanning)
- Unlimited Data Service Plan
- Management application (*either* of the following):
    - Comet Tracker installed on a workstation
    - Comet EZ

Please contact **Actsoft Technical Support** about additional requirements for your handset software version and/or handset model.

What's New in this Guide

mComet Release 1.0.4.4 features the following enhancement(s):

Form Preview/Review –

Users can now preview their Regular/Advanced Forms, Orders, Worker Statuses and Timekeeping forms data before submission. A form review screen is also available from the History screen to review previously-submitted forms.

Save and Send –

Submit the form you are working with and simultaneously save a copy to the handset with the **Save and Send** function. Save and Send eliminates the need to recreate a single form – users can simply navigate to the saved form in the Archived area, and begin using.

Archive Form Rename –

Rename an archived form's name when you save it to the Archived area. Under the Options menu, you can set the application to prompt for the name whenever the user saves a form. You can also long press a form entry onscreen to open the *Save As* dialog.

Revision History

Version	Date	Comments
1.0	January 1, 2009	Manual redesign
2.0	April 21, 2009	Manual redesign
3.0	February 22, 2010	Manual restructure

Symbols Used Frequently in this Document

Type	What it Means:
	Important Note
	Warning – action may adversely affect application or handset performance

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Installing mComet

Install the application on your handset before using mComet. If you are installing an upgrade to an existing version of mComet, you must first uninstall the existing version. **Contact Actsoft Technical Support for assistance with all uninstalls**.

Allow Location Access

You must first allow the handset to receive signals from any location. Note that menu names/designations may appear differently on different handsets:

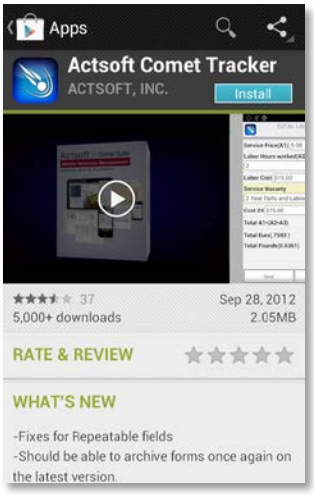
1. Press the **Menu** key.
2. Choose **Settings**.
3. Choose **Location Services**.
4. Choose **My Location**, and ensure that the following are checked:
   - Use Wireless Networks
   - Use GPS Satellites
   - Use [Carrier]'s location services
5. Confirm your choices on the dialog that follows.
6. Press the **Home** key to return to the home screen.

Now, install mComet in one of two ways:

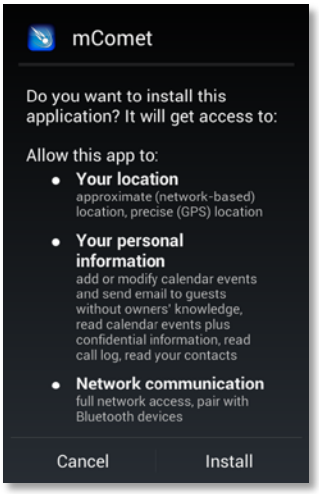
- via the Play Store (formerly Android Market)
- via ZXing Team barcode (See *Via ZXing Team barcode scan* on page 9)

mComet Installation Via Play Store

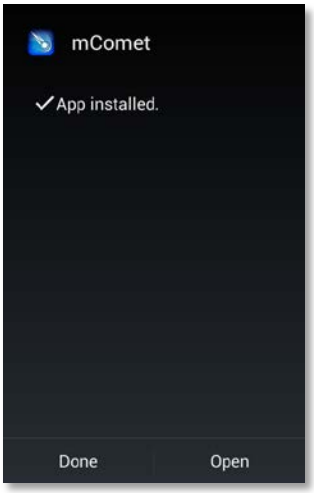
1. From the home screen, choose **Play Store**.
2. Enter *Actsoft* in the search field.
3. Select **Install** on the *Actsoft Comet Tracker* information screen.



4. Choose **Install** to confirm mComet application access permissions.


mComet
Do you want to install this application? It will get access to:
Allow this app to:
Your location
approximate (network-based) location, precise (GPS) location
Your personal information
add or modify calendar events and send email to guests without owners' knowledge, read calendar events plus confidential information, read call log, read your contacts
Network communication
full network access, pair with Bluetooth devices
Cancel
Install

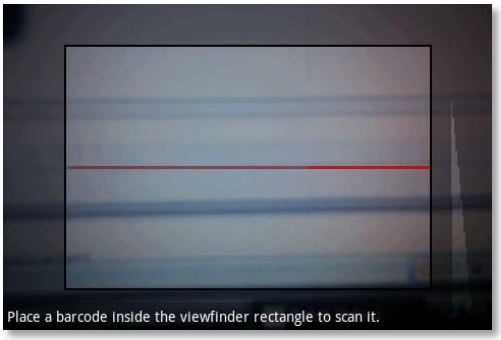
5. Choose **Done** to return to the **Home** screen, or **Open** to run mComet now. If you press **Done**, you can return to the **Home** screen and open mComet later. An icon for mComet is also added to the **Applications** screen.



Installing mComet Via ZXing Team barcode scan

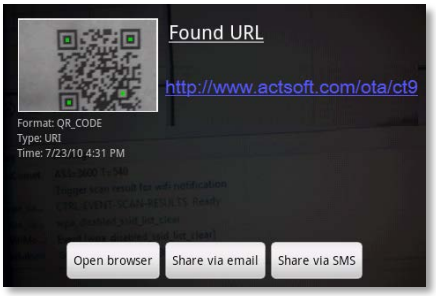
1. From the home screen, press **Applications**, and then choose **Barcode Scanner** .

   The handset screen orientation will change to horizontal, and display a red laser.



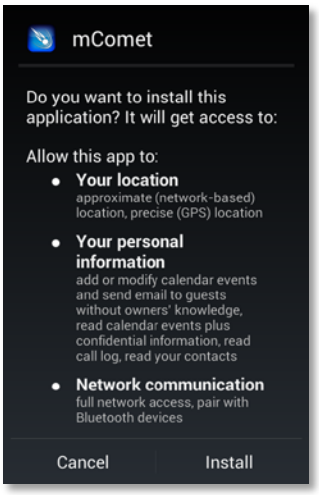
2. Center the **mComet** barcode below inside the viewfinder's laser rectangle.

3. When the scan is successful, choose **Open browser.**

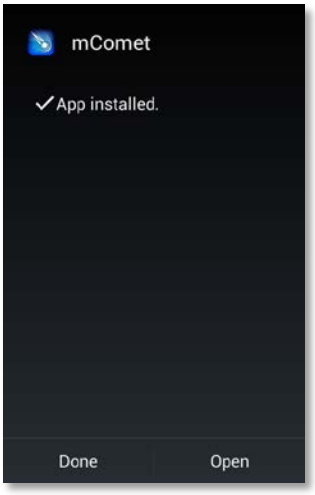


4. Go to **Downloads**, and choose **mComet.apk** from the list.

5. Choose **Install** to start the download.


mComet
Do you want to install this application? It will get access to:
Allow this app to:
Your location
approximate (network-based) location, precise (GPS) location
Your personal information
add or modify calendar events and send email to guests without owners' knowledge, read calendar events plus confidential information, read call log, read your contacts
Network communication
full network access, pair with Bluetooth devices
Cancel
Install

6. Choose **Open** to start **mComet**.



Enabling the Scribe Pen

If you have an **HTC Scribe Pen**, you can configure the handset to use the stylus after you have set up mComet:

1. From the mComet **Setup** screen, choose **Menu**.
2. Choose **Devices**.
3. Choose the **HTC Pen** device.
4. Choose **Done**.

Uninstalling mComet

Uninstall mComet before installing a new version of the application. Contact **Actsoft Technical Support** at **813-936-1511** for assistance with all uninstalls.

Handset Navigation

mComet uses the navigation tools available on your handset to move through screens and menus. In this document, the **HTC Hero**, shown below, is used for all illustrations. If you are using a different handset model, keys, screens and menus may be slightly different.

For detailed information on how to use your handset model, see your handset user guide.

HTC Hero

Add to Home key	Touch **Add to Home** to add shortcuts, widgets and folders on the home screen.
All Programs key	Touch to display the **All Programs** screen. This screen displays all applications loaded on the handset.
Back key	To return to a previous screen, close a dialog box or close the onscreen keyboard, press the **Back** key.
Call key	To make or receive calls, answer Call Waiting, use 3-Way Calling, or activate Automatic Speech recognition, press the **Call** key.
End/Power key	To end a call or to power the handset on or off, press the **End/Power** key. Additionally, you can press the **End/Power** key to return to the home menu when you are not on a call.
Home key	To return to the *Home* screen, press the **Home** key. You can also press and hold the **Home** key to open the recently-used applications window.
Phone key	Touch **Phone** to answer an incoming call.
Menu key	To access submenus within mComet, press the **Menu** key. Or, press the **Menu** key to access the handset menu.
Search key	To search information in the current screen or application, press the **Search** key.
Trackball	To select or highlight items onscreen, press the **Trackball**. The **Trackball** also flashes when you receive an incoming call.

Getting to Know the Application

mComet provides several ways to navigate through the application:

- Menu Icons
- Submenus
- Lists

Menu Icons

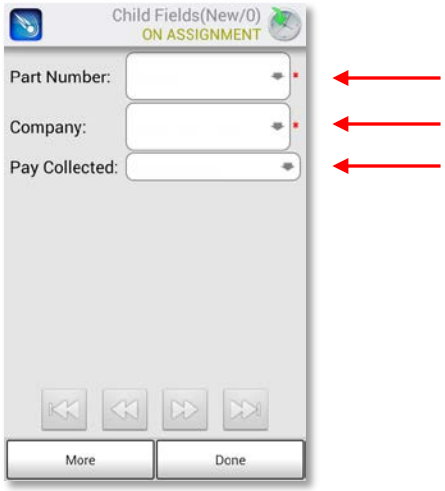
Icon	Name	Use
Main Menu Screen		
	Supervisor	Supervisors can change worker time statuses remotely.
	Timekeeping	Manage workday time events, such as clocking in, clocking out, on /off break.
	Time Punch	Manage your own time events, and other worker's, if you know the necessary credentials. Time Punch differs from *Supervisor Time Entry* in that you do not have access to all clocked-in workers.
	GPS Status	Monitor the locations of assets, such as handsets.
	Directions	Access directions to any location.
	My Location	View your location on the map.
	Status	Update worker, job or form resources.
	Forms	Add forms, (tasks) for any type of job function, such as a service call, delivery, etc.
	Landmarks	Add a landmark for a specified location.
	Orders	View and update order information. The number of unread orders displays on the icon.
	Setup	Enter Account Number/User Number, set up scanning devices or configure worker time event behavior.

Messaging	Send and receive messages from the home office. New messages are indicated by an asterisk on the envelope.
History	View and search records for all transmissions, including order/form updates, time entry records and landmarks.
Clock In	Displays in upper right corner of screen to show clocked in status.
Clock Out	Displays in upper right corner of screen to show clocked in status.
Panic Mode	Displays in upper right corner when **Panic** mode is activated.
Asterisk	Displays next to a form field that must be completed.
Camera	Displays next to a camera-activated form field.
Pen	Displays next to a signature-required/enabled field.

Submenu options change depending on your place in the application. Select **Menu** to display the submenu for the current screen.

Required Fields and Lists

Use lists to select specific values in fields. For example, in **Timekeeping**, you may have to choose from set values on clock in, such as *Vehicle Number*. You may also be able to enter unique data in required fields. Required fields and list fields are designated by asterisks and drop-down arrows, as shown on the custom form below.



Setting Up mComet

On installation, mComet will perform an automatic setup using your PTN (Personal Telephone Number) if it has been configured in *Comet Tracker*. If your PTN has not been configured, enter your *Account Number* and *User Number* manually on the setup screen. Complete the setup process while you are in network coverage.

Your account and user number are stored on the handset. Choose *Setup* to change this information.

> All archived forms on the handset will be deleted if the handset setup is modified.

1. On the handset's main menu, choose the **mComet** icon to start the application.

   The mComet icon will display on the main menu only if you have set it to display there. See *Setting Application Options* on page 11 for more information on this setting.

   The *mComet Setup* screen displays.

2. Enter your company's **Account Number** (provided by Actsoft) and **User Number**. You only need to complete this information the first time you run mComet.

3. Choose **Done** to save the setup information.

   mComet sends the account and user information and downloads the handset settings from the server. The mComet menu displays. User setup is now complete. Menu options are determined by your *Comet Tracker* administrator.

New User Setup

If you have selected **mComet** from the *Play Store* and do not have an account, a new splash screen will display. This screen will also display if you have just purchased and installed mComet. **Note: Upgrading users will not see this screen.**

This screen explains some AWF features, and offers three (3) options:

- **Log In** – Go to **Setup** screen, or automatically set up mComet via handset phone number
- **Sign Up** – Displays a screen to enter and forward your contact information to **Actsoft Sales** to create an account
- **Take a Tour** – Logs the user in to the mComet demonstration account

Suspending and Returning to mComet

Press the **Home** button to exit mComet temporarily. mComet is suspended, but you remain logged in and mComet continues to obtain and transmit data in the background. You can then return to the handset menu and use all the handset features.

Choose the mComet icon from the handset's main menu screen (or **Apps** > **mComet**) to resume.

Setting a Pin Code

mComet allows you to set a pin code in two (2) areas to restrict access to:

- Application setup screens
- Supervisor screens

1. Select **Setup** or **Supervisor** from the main menu.

   Note: If *Supervisor Time Entry* has not been configured for your handset, the **Supervisor** icon will not display on your main menu.

2. Touch the **Menu** key and choose **Set Pin**.

3. On the *Pin Code* screen, enter up to 30 numeric characters for your pin code.

4. Choose **OK**. The pin code is recorded and the *Setup* screen displays.

5. On the *Setup* screen, display the submenu and choose **Done**.

Changing the Pin Code

1. From the main menu, choose **Setup** or **Supervisor**.
2. Display the submenu and choose **Set Pin**.
3. Enter the Old Pin Code, and then the New Pin Code. Choose **OK**.

To delete the *Pin Code*, enter the old Pin Code, and leave the **Enter New Pin Code** field blank.

Setting Up Panic Mode

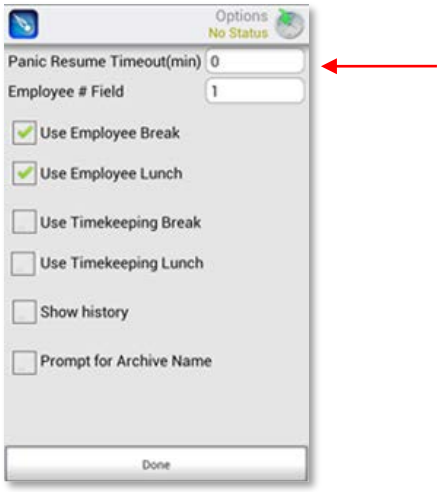
Panic mode tracks the handset during an emergency. In panic mode, mComet obtains and transmits new position information to the *CT* workstation every 5 seconds. The *CT* workstation shows that the user has activated panic mode.

Order and **message** icons are hidden when panic mode is active.

Panic Resume Timeout

Use **Panic Resume Timeout** to set the number of minutes that pass before mComet will be resumed if suspended. This allows you to quickly access mComet and press the appropriate button or key to alert the office to an emergency. Panic Resume Timeout is set at zero (0), or Off, by default.

When mComet is resumed, mComet will sound a notification, vibrate the handset and display in the status bar of the screen. Click **Ok** to resume mComet.



Panic mode is set up to work using the volume keys on either side of the handset.

Activating Panic Mode

1. Press the **Volume Up** or **Down** key on the left side of the handset for 5 seconds.

   The handset vibrates briefly and the panic icon displays in the upper right corner of the screen.

2. Deactivate panic mode by again pressing the up or down volume key for 5 seconds.

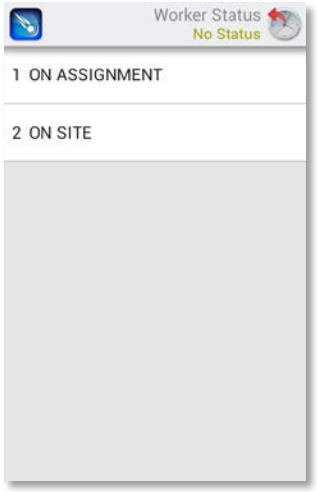
Using the Application

Worker Status

Use **Worker Status** to communicate your availability to the office. Before you choose a status, *'No Status'* displays on the title bar. After you choose a status, the updated status will display on the handset and the *CT* workstation.

Administrators can link statuses to forms for additional information. For example, an *Available* or *Unavailable* status can be linked to a *From Time*/*To Time* form that must be completed before the status is accepted.

1. Select *Worker Status* from the main menu.
2. Select a status from those listed onscreen. Statuses with accompanying forms will display an icon on the right.



3. Complete any forms linked to the status you have chosen, if necessary.
4. Choose **Send**. The new status will display on the title bar.

   Now, your login is associated with your selected status until you change it. If you choose an incorrect status, repeat the process.

Using Repeat Timer Alerts with Worker Statuses

Repeat timer alerts can be linked to worker statuses to provide ongoing updates. With repeat timers, a time interval is associated with a status.

For example, a 15-minute timer can be associated with the 'Started Route' status to estimate how long it takes a worker to reach a destination. This information can help administrators to assign jobs and manage workloads more efficiently.

When repeat timer alerts are set up for your handset in *CT,* the handset will:

- resume mComet for validation, if mComet has been suspended
- display a repeat timer message
- sound an audible alert
- vibrate the handset

When the repeat timer alert sounds, the handset will display the following message onscreen: *'This status <**name**> requires a check in every <**n**> minutes'*.

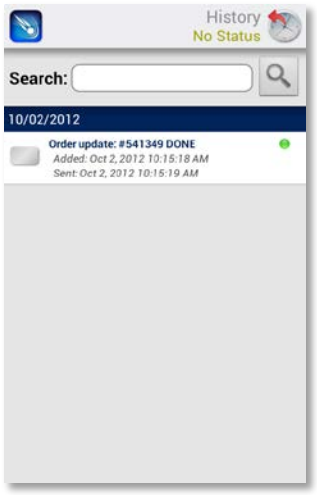
Choose **Ok** to confirm your status. The repeat timer continues to time your activity or status in the background.

Each time the message is cleared, the updated status is sent to the *CT* workstation.

To change the status when you have completed the conditions of the timer alert, return to the **Worker Status** icon on the main menu and change the status. See *Worker Status* on page 23 for more information.

History

Select the **History** icon to verify the sent status of completed or updated landmarks, forms, orders, worker statuses, timekeeping records, etc. As data is transmitted, an entry is added to the *History* screen with' time added' and 'time sent' timestamps. If the transmission is successful, a green circle displays on the record. If the device is unable to send the data, the **Sent** timestamp is blank and a yellow circle displays next to the record.



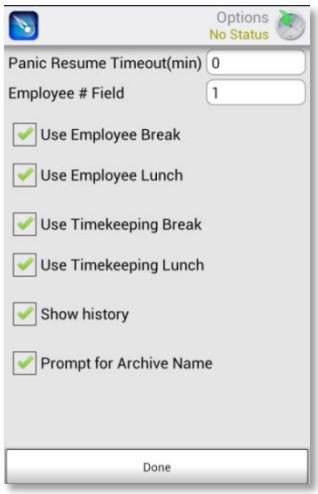
As connectivity returns, timestamps for the unsent records are added and the yellow circle changes to green, indicating a successful transmission.

You can also use the **Search** field to search records using any criteria, such as date, record type or time.

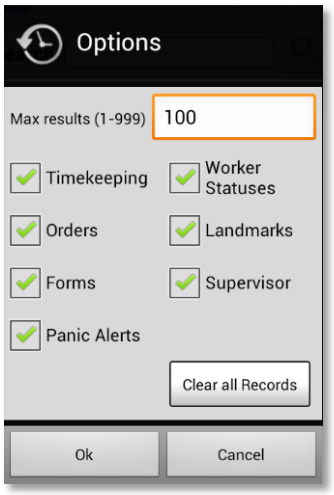
Filtering Records

You can set a filter to display only specific record types, determine the maximum number of records to display on the screen, or to hide the feature completely.

1. From the *History* screen, press the **Menu** key to display the *Options* screen.



2. Choose your desired settings for the fields displayed onscreen.



3. Select **Ok**. If you opt to hide history records, they continue to be stored and are available when **History** is re-enabled.

Working with Time Entry

Supervisor time entry and worker time entry allow supervisors and workers to change time cycle statuses. The time entry records are also available on the *CT* workstation and can be modified as necessary.

Supervisor time entry or Worker time entry must be activated for your account by *Actsoft Comet Tracker Support*. **Note: Supervisor time entry and worker time entry will not display together on your handset – if you have one, you will not have the other.**

Setting Up Supervisor Time Entry

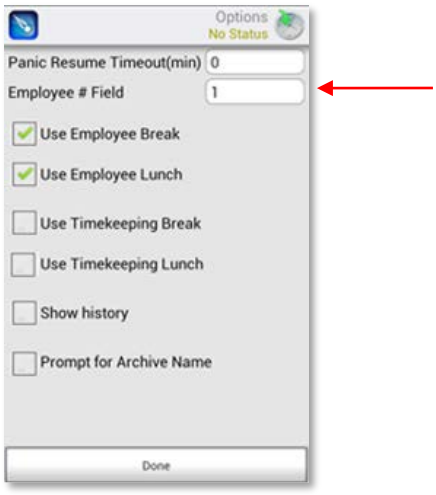
1. Choose **Setup** from the main menu.

2. If prompted, enter the **Pin Code** on the *Pin Code* screen. If no pin code has been set, the *Pin Code* screen will not display.

3. Select **Options** on the *Setup* screen.

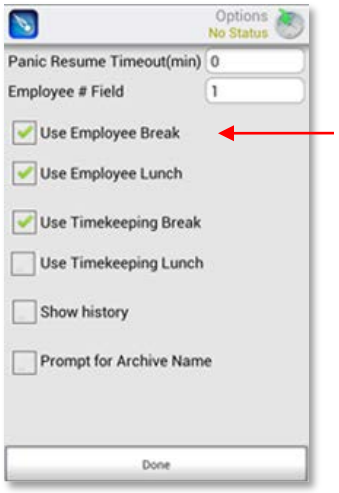
4. On the *Options* screen, enter the number of the field that contains the **Employee Number** in *Comet Tracker* into the **Employee # Field** field. See your *Comet Tracker* administrator for this number.

> You cannot enter a value greater than the number of available *Clock In* fields. The **Employee Number** field defaults to 1 if setup data has not been downloaded before this field is specified.

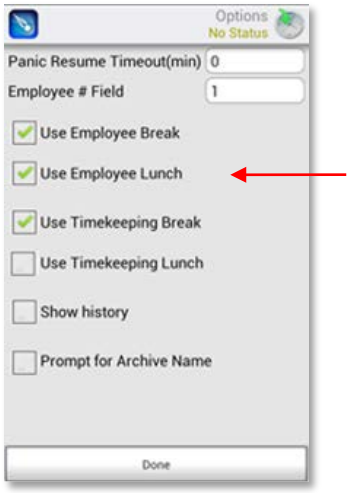


5. Select **Use Employee Break** to include the *On Break* and *Off Break* events in the time status cycle.

   If a worker is currently clocked in, the next event is *On Break*. The *On Break* event will be available on the *Supervisor Time Entry* screen.



6. Select **Use Employee Lunch** to include the *On Lunch* and *Off Lunch* events in the time status cycle. The lunch event will be available on the *Supervisor Time Entry* screen.



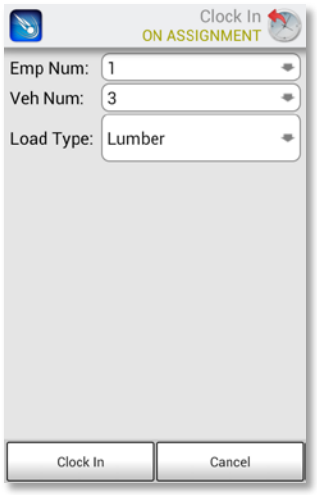
Using the Supervisor Time Entry Feature

Your CT administrator creates the fields on the time entry screens.

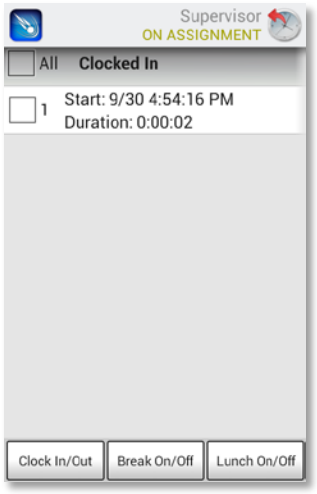
1. Select **Supervisor Time Entry** from the main menu.

2. When the *Supervisor Time Entry* screen displays, press the **Menu** key and choose **Add Employee**.

3. Complete any required clock in fields and choose **Clock In** as shown below.



After you have entered and completed data for multiple workers, the *Supervisor Time Entry* screen will display a listing of worker- or supervisor-entered records.



4. To record the next event for one worker, select the worker and choose an event.

5. To advance multiple worker statuses, check **All** and choose an event, such as **Clock In/Out** or **Lunch On/Off**. mComet will perform the action on only the statuses logically affected by the change.

6. To delete a record, choose a worker, display the submenu and select **Delete**. To delete all records, display the submenu and choose **Delete All**. Or, press and hold a single record and select **Delete All**.

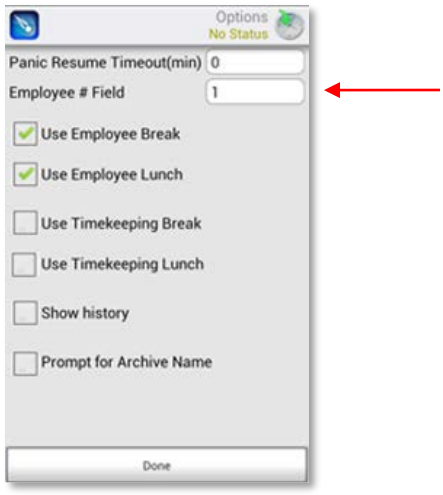
Setting Up Worker Time Entry

Set up worker time entry to advance other workers to the next time cycle event.

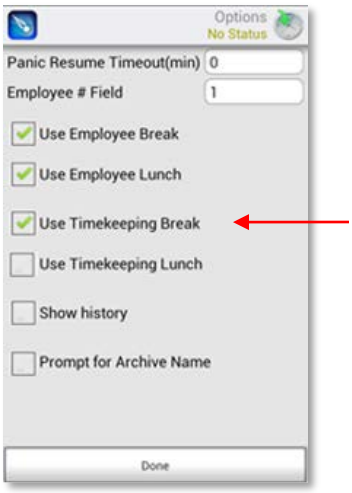
1. Choose **Setup** from the main menu.
2. If prompted, enter the **Pin Code** on the *Pin Code* screen. If no pin code has been set, the *Pin Code* screen will not display.
3. Select **Options** on the *Setup* screen.

4. On the *Options* screen, enter the number of the field that contains the **Employee Number** in *CT* into the **Employee # Field** field. See your *CT* administrator for this number.

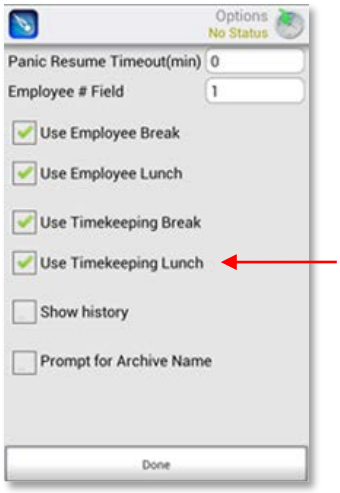
> You cannot enter a value greater than the number of available *Clock In* fields. The **Employee Number** field defaults to 1 if setup data has not been downloaded before this field is specified.



5. Select **Use Timekeeping Break** to include the *On Break* and *Off Break* events in the time status cycle. If a worker is currently clocked in, the next event is *On Break*.



6. Select **Use Timekeeping Lunch** to include the *On Lunch* and *Off Lunch* events in the time status cycle.

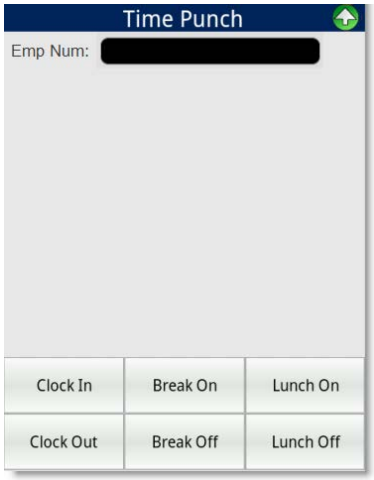


Using Time Punch

Use **Time Punch** (worker time entry) to clock other workers in/out, on/off lunch, or on/off break. If the **Time Punch** icon displays on the main menu, the **Supervisor Time Entry** icon will not display.

1. Select **Time Punch** from the main menu.

   The *Time Punch* screen displays. Note that fields on the screen may vary.



2. Complete any required fields and select a time status.
3. Choose **Ok** to confirm the status change.

> The worker's changed time status will not display onscreen.

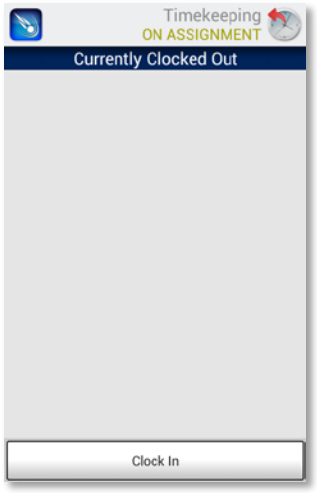
Clocking In

Clock in when you are ready to begin work for the day. The time and date are recorded and displayed on the *CT* workstation. The icon in the top right corner of the screen shows your clock in or clock out status.

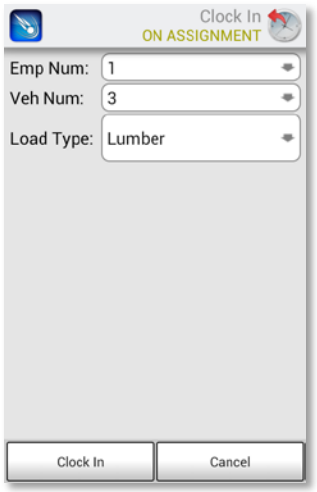
Clocked **out** Clocked **in**

1. Select **Timekeeping** from the main menu.

   The *Timekeeping* screen displays with your status of 'Currently Clocked Out'.



2. Choose **Clock In**. You may have to complete additional form fields on the *Clock In* screen, as shown.



Clock In screen fields are specified by your *CT* administrator. For information on completing *Clock In* fields using a barcode scanner, see *Using the Barcode Scanner* on page 73.

3. Choose **Clock In** again.

   The *mComet* main menu displays with the options available to you. The clocked in icon displays in the upper right portion of the screen.

> The *Forms* and *GPS Status* options are available only if they have been set up by your system administrator. The *Landmarks* option must be enabled by **Actsoft Technical Support**.

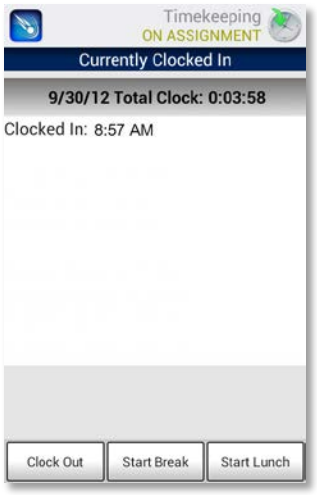
Clocking Out

Clock out when you have completed your work shift. The time and date are recorded and displayed on the *CT* workstation. *Clock Out* data fields are created by your *CT* administrator.

Administrators can also set automatic clock out. Do not clock out if your handset is set to clock out automatically.

1. Select **Timekeeping** from the main menu.

   The *Timekeeping* screen displays with your status of 'Currently Clocked In'.



2. Choose **Clock Out**.
3. Complete *Clock Out* fields using the keypad or with a scanner, if required. For information on completing fields with a barcode scanner, see *Using the Barcode Scanner* on page 73.
4. Choose **Clock Out** again. The clocked out icon in the top right corner of the screen indicates that you are currently clocked out.

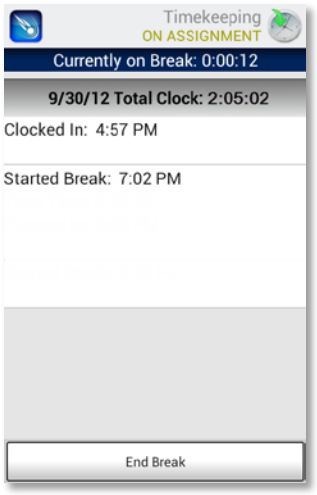
Clocking On and Off Break

Use mComet to indicate when you are on or off break. Break status, time, and date are automatically sent to the *CT* workstation.

> You **cannot** use any mComet functions outside *Timekeeping* while on break. You may, however, use the handset functions.

1. Select **Timekeeping** from the main menu.
2. Choose **Start Break**. The screen indicates your status, and records the length of your break.

   End Break is now highlighted, as it is the next status in the time cycle.



3. To end your break, select **End Break**.

Clocking On and Off Lunch

Use **Timekeeping** to indicate when you are on or off lunch. Lunch status, time, and date are automatically recorded and displayed on the *CT* workstation.

1. Select **Timekeeping** from the main menu.
2. Choose **Start Lunch**.

   The screen indicates that you are on lunch, and starts recording your lunch break.

3. To end your lunch, select **End Lunch**.

Working with Forms

Use the **Forms** feature to record information on the handset. A form can be set up for any type of job function (service call, delivery, customer visit, etc.). *Forms* is available only if it has been configured by your system administrator. Your *CT* administrator creates the customized fields for data capture.

When you send completed form information from the handset, *Comet Tracker* automatically records the date and time of completion. You can also create child records to enter more information about a main form.

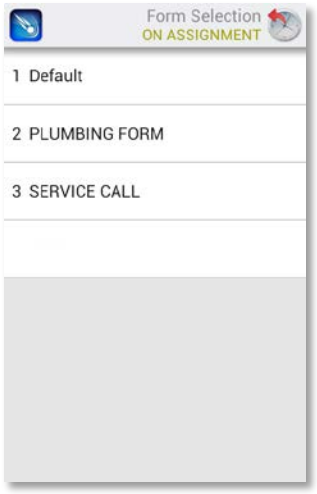
You can also enter and save form data, retrieve it later and edit it. The number of archived forms that can be stored is limited to the handset's memory.

If you change the user and account number on a handset with stored forms, all the archived forms will be deleted. A warning message will display before you can proceed.

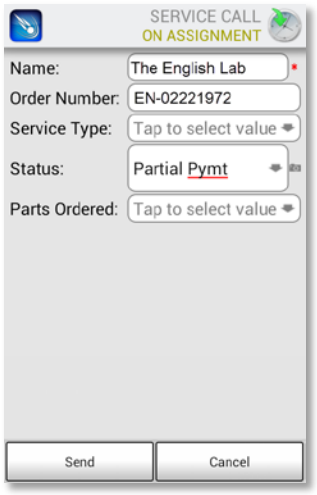
Forms **cannot** be archived when combined with **Orders**.

To begin working with forms:

1. Select **Forms** from the main menu.
2. Select a form from the *Form Selection* screen. The *Form Selection* screen lists advanced forms, blank (default) forms and archived forms.



3. Use the handset keypad to complete the form. Fields with asterisks are required. The *Service Call* screen is shown below.



Fields with camera icons will invoke the camera for image capture. Drop-down arrow fields feature data to choose from.

For information on how to complete form fields using a barcode scanner, see *Using the Barcode Scanner* on page 73.

4. Choose **Send** to send the information to the server. Or, you can choose to archive the form. Two options exist for saving:

    - **Save** – Save the form to the handset
    - **Save & Send** – Send the form you are completing, but save a copy on the handset to re-use later

    If you have selected the *Prompt for Archive Name* checkbox on the *Options* screen, you will be prompted to enter a form name at each save. Or, long press an archived form from the *Form Selection* screen to rename it.

Adding Images

Add images to form data to include illustrative detail. Forms with images must include a data value. If you are using a device running mComet Release 4.0.0.7, you can insert an SD card and select images for use. Add images to forms in either of these ways:

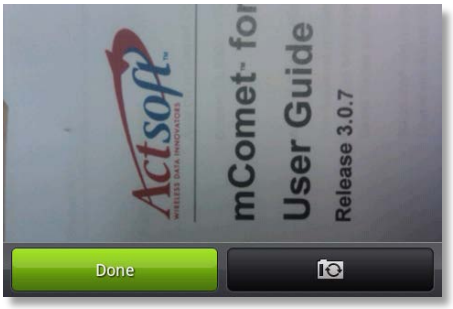
Importing from Device Storage

- Press and hold the camera icon in a camera-activated field to display the image gallery. Then choose an image.

New Image

- With a form or child form onscreen, display the submenu and select **Camera**.
- Navigate to a camera field to invoke the camera automatically. Camera-activated fields are marked with a camera icon.

1. Choose **Done** to keep the image, or select the **Retake** option to retake the image.



2. Touch the **Menu** key and choose **Images** to review any captured images before submitting.
3. Choose **Send** when you have finished entering all form data.

Image Editing

Image editing is available **only** with **Advanced Forms**.

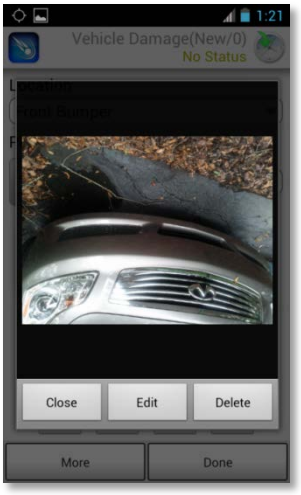
With image editing, you can capture and alter images you have attached to a form. Highlight areas on images captured in the field, or outline areas of interest from a standard template.

If you are working on a Tablet device running mComet 4.0.0.7 or greater, you can use the HTC Scribe Pen for editing. See *Enabling the Scribe Pen* on page 11.

In the example below, a home health care worker can show patient injury or areas of pain.

You can capture a new image or use an existing image to edit.

1. To use an image already captured, navigate to the image in the handset's image bank. Or, click on the image you have just captured.
2. Click on the image and choose **Edit.**



3. Choose **Color**, and select a color from the color wheel.

4. Choose **Size** to select a line weight.

5. Now, use the line to mark the image. The image will display within the form.

Adding Signatures

You may be required to add a signature to a form. Signature capture fields are indicated by the pen icon . To add a signature to form data:

1. Inside a form field, display the submenu, and select **Signature**. Or, navigate to a form field that allows signature input.

2. Sign in the signature area with your finger.

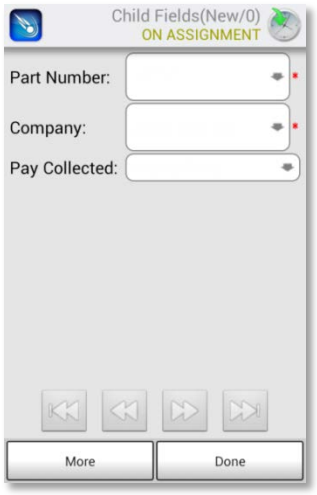
3. Choose **Done**.
4. If necessary, display the submenu and choose **Images** to review signatures before submitting.
5. Choose **Send** when you are finished.

Creating Child Forms

Create a child form to enter additional information for a main form.

1. From a *Form* screen, display the submenu and select **More**, and then choose **Child Form**.

   The *Child Fields* screen displays. The title bar shows the number of the current record and the total number of child records created. Fields with cameras on the ends activate the handset camera.



2. Complete the fields, entering up to 30 characters in each field. Use the arrow keys to page through the forms. For information on how to complete fields using an optional barcode scanner, see *Using the Barcode Scanner* on page 73.

3. To add another child form, select **More**, or display the submenu for more child form command options.

4. Choose **Done** when you are finished with the *Child Form*, and **Done** again when you are finished with the main form.

5. Choose **Send** when you are finished with both forms.

Advanced Forms

> Advanced forms are an mComet additional feature. Check your company's software agreement to see if you have access to advanced forms.

Advanced forms allow companies to customize new forms, or recreate paper forms for completion on the handset. You can also save or archive forms on the handset to edit later. The handset's memory determines how many forms you can archive. **All archived forms will be deleted if you change the user and account number on a handset with stored forms.** A warning message will display before you can continue.

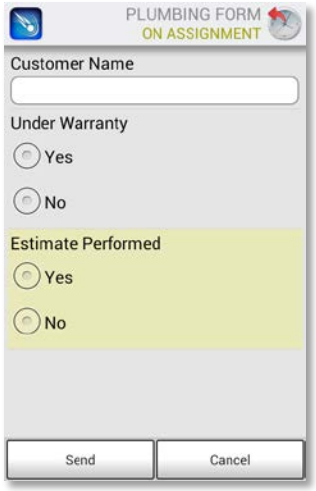
Anatomy of an Advanced Form

In *Forms Designer*, your administrator creates forms that include various screen elements, such as buttons, drop-down lists and checkboxes. A main form is created, and then decision field sections are added based on the data to be gathered. Repeatable forms are also created to list multiple items of the same type.

Screen Elements and Field Behavior

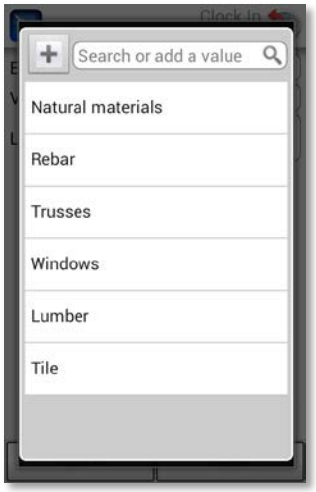
Drop-down lists – Arrows next to a field indicate available data choices. If configured, you can select multiple values, or add unique values, or search values.

Decision fields – Fields requiring you to make a decision after you enter data are shaded.

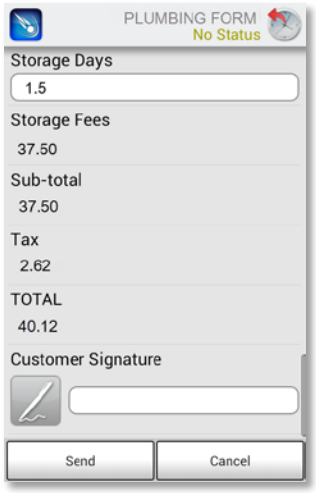


Drop-down list searching – Enter search criteria in the text field at the top of the drop-down list to search list values. If the field is editable, you can add a unique value to the list, and choose (**+**) when you are finished. Added values stay at the top

of the list unless deleted, changed in the *Forms Designer* or if the account/user numbers are changed.



Calculation fields - Calculation fields are based on formulas that calculate data input into an advanced form. Using them can save time and increase the accuracy of simple or complex operations.



Perform calculations such as addition, subtraction, multiplication and division. Calculations can only be performed using currency and numeric fields.

Repeatable fields – Repeatable fields are used to list multiple items of the same type, or repeating information. They can be used also for calculations such as count, sum and averaging.

Asterisks and Icons –Fields with asterisks are required, and camera-activated fields display a camera icon.

Multi-select drop-downs – If it is configured in the *Forms Designer*, you can choose multiple values in a field. To delete a drop-down list value, press and hold the value, and then confirm the action.

Email field – Search and select one or more email addresses from the handset contact list. You can also enter a unique email address. As you enter a new address, the text will be red until it conforms to normal email protocol. The address will change to green when it is acceptable. Click the plus (**+**) to add the address to the contact list.

The following scenario illustrates how advanced forms can be used:

Scenario:

Your worker has been dispatched on a plumbing service call. The client has a leaking toilet. The worker determines whether the equipment is still under warranty and proceeds with an estimate, after permission from the client.

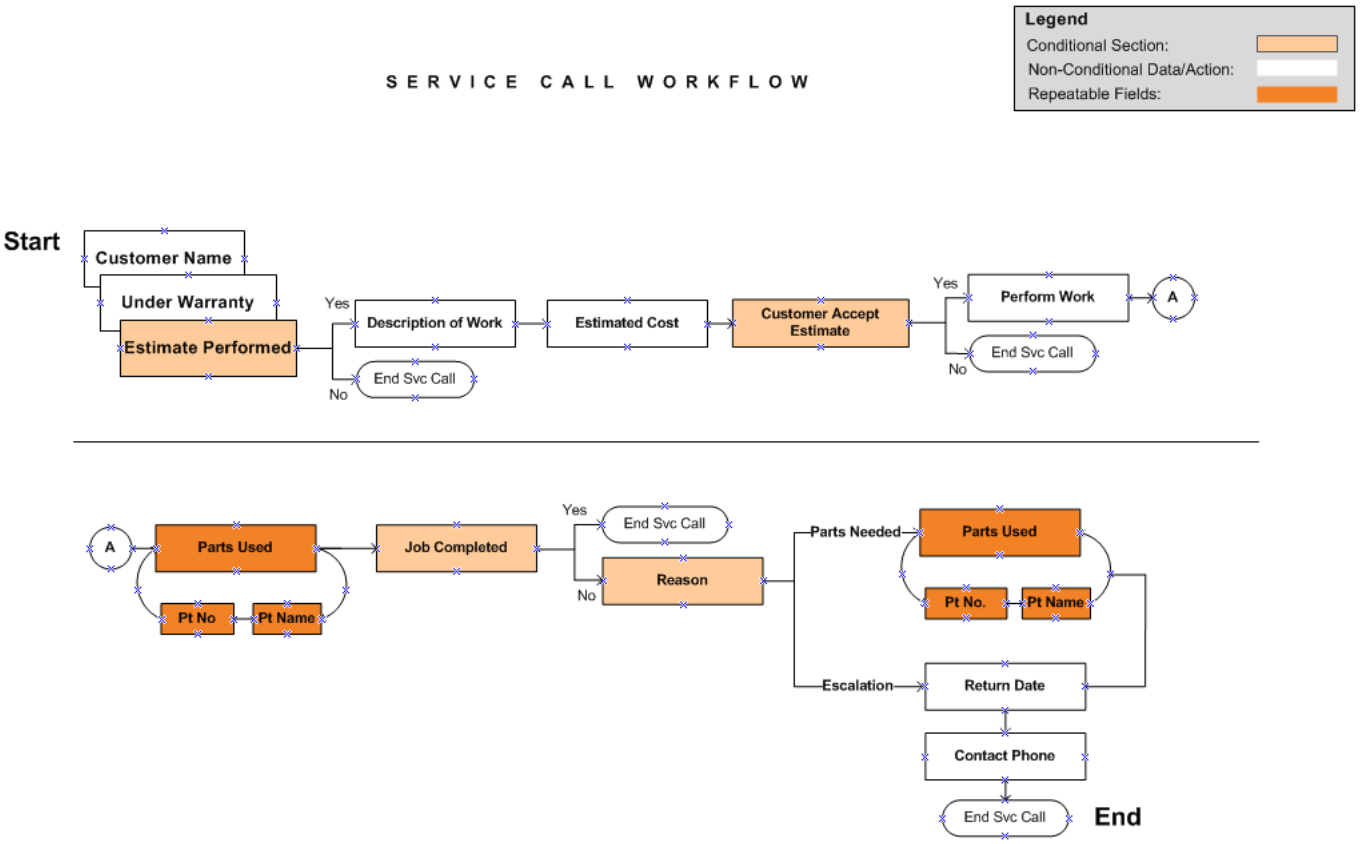
The worker describes the necessary repairs to the client, and enters them into the form. The worker also explains and enters the estimated cost. If the customer agrees with the cost, the worker performs the repairs, listing the parts used on the form.

In this scenario, the worker finds another problem with the toilet, but does not have the parts to make the repair. The worker notes that the repair is not finished, and that parts are needed. The parts needed are also listed.

At the end of the service call, the worker sets a return date based on when the ordered parts will arrive, and verifies the contact information.

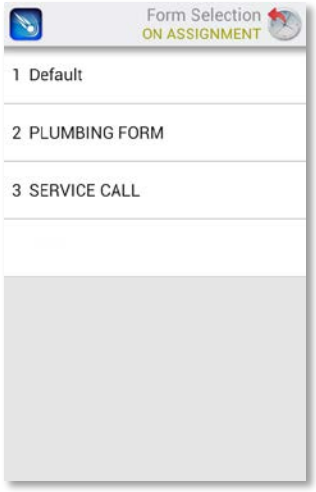
Below is the process flow of the preceding scenario.

Sample Service Call Workflow



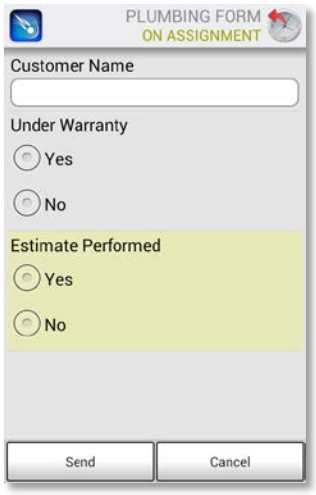
The following pages illustrate the handset screens and steps that correspond to the preceding service call flow and scenario.

1. Select a form type from the *Form Selection* screen.

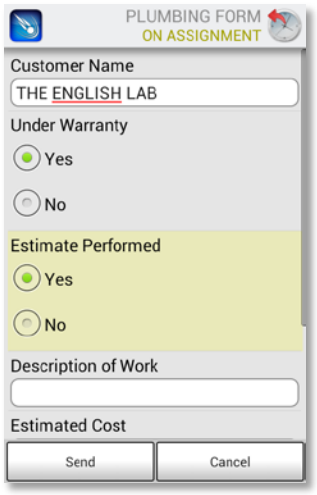


2. Begin the form, entering any required information.

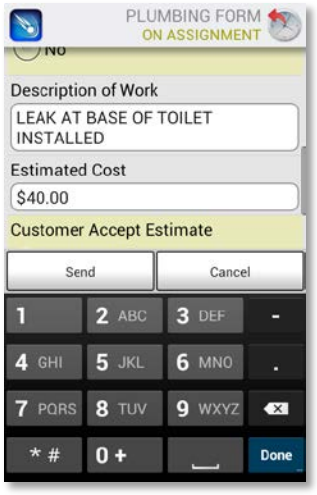
   Drop-down arrows indicate that there are data choices for a field. Fields with asterisks are required, and camera-activated fields display a camera icon. Decision field sections are shaded – note that additional information will display based on the choice you make for '**Estimate Performed**'.



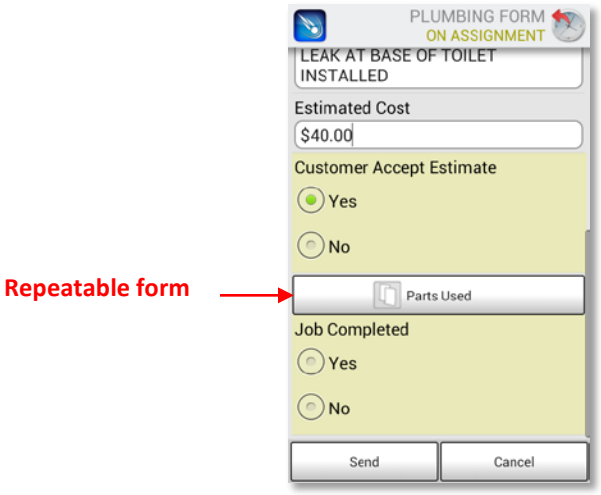
   On the form below, the '**Estimate Performed**' section is complete. When you choose **Yes**, another section displays in which you can describe the work to be performed.



3. Enter the estimate dollar value in the 'Estimated Cost' field and select an answer to 'Customer Accept Estimate'. Note that both sections are shaded, indicating that they are decision field sections.



4. When you select 'Yes' to *Customer Accept Estimate*, the *Parts Used* repeatable form displays for completion. The 'Parts Used' section is a repeatable form, as indicated by the multiple page icon.

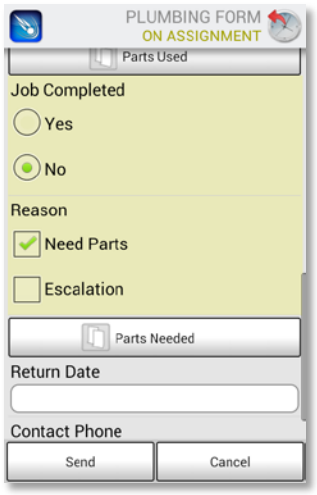


5. Click on the *Parts Used* section and the repeatable form displays, as shown below. Choose **More** to create and complete this form as many times as needed to list all parts used.

6. Add more information about the part type(s) used on the repeatable screens that follow, and choose **Done**.

After you complete all necessary repeatable forms, the main form will redisplay for completion.

7. Continue to the next decision field section of the form, **Job Completed**. Select **No**.



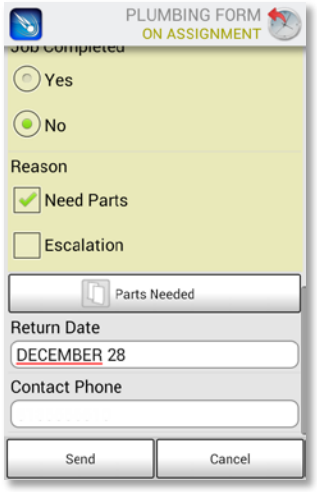
8. Enter the reason for the status, and continue to the **Parts Needed** repeatable section.

9. Enter the parts needed in the repeatable form.

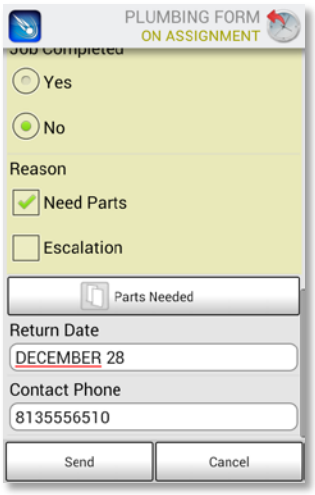
   Additionally, if the form field has been configured, you can add images to the form. You can also edit images you have captured. See *Image Editing* on page 40 for more information. These images will display within the form as thumbnails. Click on the thumbnail to view an enlarged resolution of the image.

10. Select **More** to add more repeatable forms, and **Done** when you are finished.

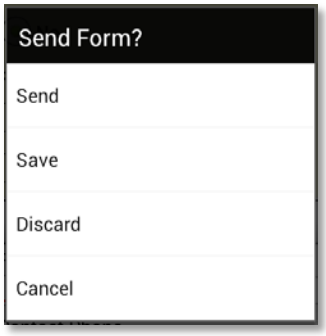
11. On the main form, continue with the next portion, the **Return Date**.



12. Enter the **Contact Phone**, and choose **Send**. You can also display the submenu and choose **Save** to complete the form later.

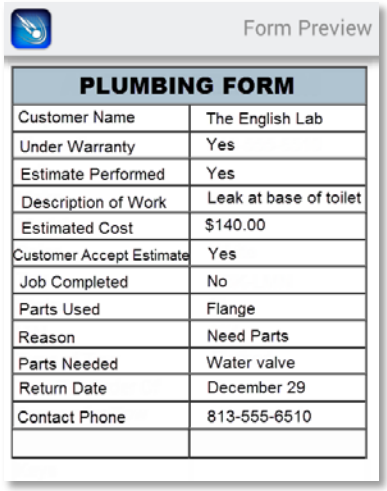


13. Confirm the action on the dialog screen.



Form Preview

You can also display the submenu and then choose **Preview** to review your completed form before sending:



Working with Orders

Orders works with the *CT* and *Comet Mobile Worker* applications. With **Orders**, workers use the handset more for updating, delivering and confirming orders. Contact your system administrator to find out if you should use the **Orders** function.

Order Alerts

You may receive an alert on your handset to inform you when a new order has been dispatched or if an order has changed. New order alerts will display on the handset's status bar.

You must be within the network coverage area to receive new order alerts. When an order alert message displays, click on the alert from the status bar to refresh the order information.

Reading Orders

With **Orders**, you can receive, view and update information about orders dispatched to the handset. You can also enter additional information and update order status.

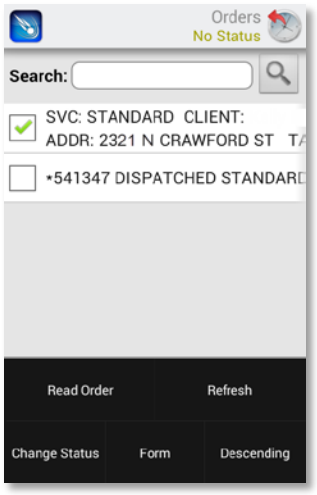
Up to 200 orders at a time can be displayed on the handset. When you reach 200, you must purge viewed orders to receive new orders. Additionally, on tablet devices, a notification will display when *CT* has deleted an order.

If there are no orders assigned to you, '*No Orders'* displays at the top of the screen. Unread orders are preceded by an asterisk. Additionally, you can sort the orders in ascending or descending order, according to time and date received.

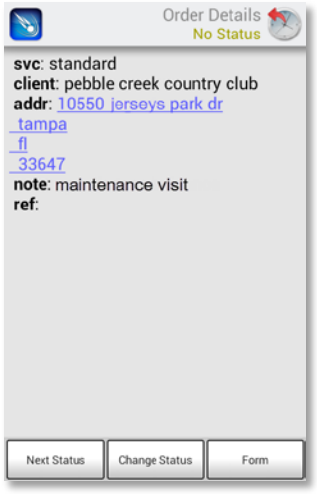
If an order you have chosen has been deleted by your system administrator, an error dialog will display.

1. Choose **Orders** from the main menu. The number of orders will display on the icon.

2. On the *Orders* screen, select an order to view OR display the submenu, and choose **Read Order**.



3. Review the order information.



Click on any hyperlinked text in the order information and send emails, map address routes or dial phone numbers. Select the text and display the submenu for options.

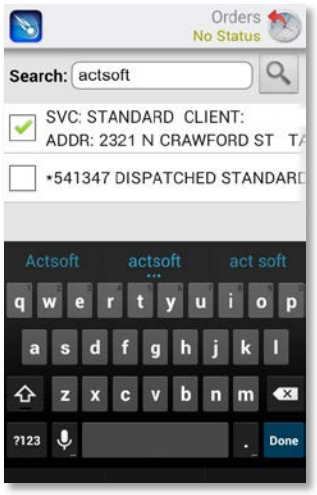
4. When you are finished reviewing order information, press the **Back** key.

The *Order Screen* redisplays. When an order has been read, the asterisk no longer displays in front of the order.

Searching Order Information

Use the **Search** function to search through all dispatched orders to find a particular order.

1. Choose the **Search** field to display the keyboard, type in criteria, and select the **Search** icon. **Note: Search function will search only the abbreviated order data displayed onscreen – not the full text displayed when you select 'Read Order'.**



2. All orders meeting the search criteria will display, or a message of *'No Orders'*, if none are found.

Updating Order Status

You must be clocked in to use the *Status* option with orders. Order status updates are also displayed on the *CT* workstation. Your *CT* administrator creates the order statuses available.

Your *CT* administrator may set statuses so that they must be selected in a certain order. If you choose a status that is out of order, mComet will display an error message, and you will have to choose another.

1. On the *Orders* screen, choose an order, display the submenu, and choose **Change Status**.

2. Select a status, and choose **Done**. Any forms linked to your chosen status will display.

3. Display the submenu and choose **Done** when you are finished entering required data in any linked forms.

   The updated status displays in the order summary information on the handset, and on the *CT* workstation.

4. To cancel the status change and choose a different status, display the submenu and choose **Cancel**.

Refreshing Orders

To view new orders that have been dispatched to you, refresh the order information.

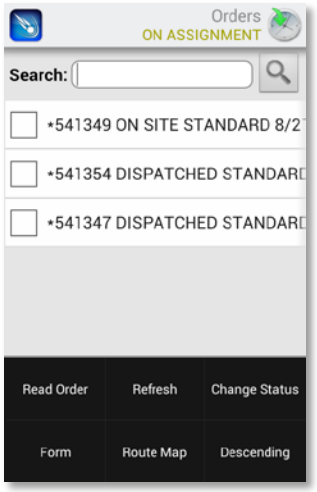
To refresh orders manually:

1. From any *Order* screen, display the submenu and choose **Refresh**.
2. Any new orders assigned to you are then displayed on the *Order Screen*, with an asterisk on the left.

Using Route Map

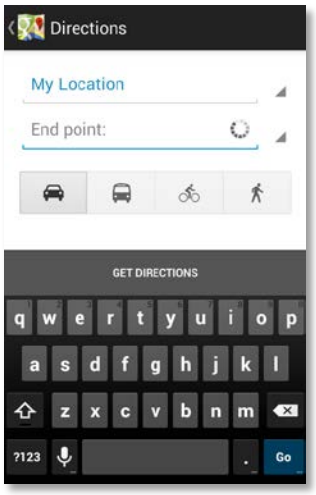
Route Map uses the address sent with an order to show directional maps or text detailing the route between two locations. You must be within network coverage to view maps. **Google Maps** is used for route mapping.

1. Select an order, display the submenu and select **Route Map**.



The default location for the starting point is your current location. mComet will pinpoint your location and insert it (*'My Location')* in the **Starting point** field.

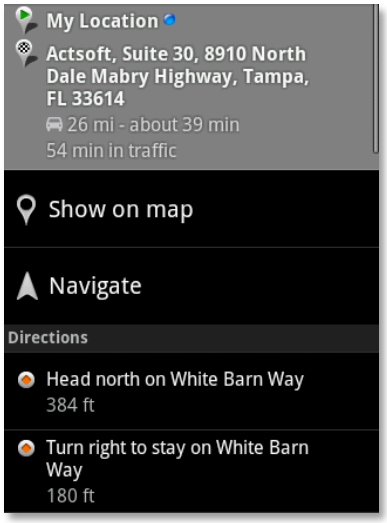
2. To enter a different starting point, select the **Starting point** field, and use the keyboard to enter a different address, or choose a point on the screen.



3. Choose the transportation mode – car, bus, bike or walking, and select **Go**.

Google maps returns with the route information page:

- Search Results – Current location, Destination, Number of miles/Est. travel time
- Show on map (select this to see the route on the map)
- Navigate (available only if you have access to **Google maps**)
- Directions (turn-by-turn text directions from the location specified)


My Location
Actsoft, Suite 30, 8910 North Dale Mabry Highway, Tampa, FL 33614
26 mi - about 39 min
54 min in traffic
Show on map
Navigate
Directions
Head north on White Barn Way
384 ft
Turn right to stay on White Barn Way
180 ft

4. Choose **Show on Map** to view a summary map, as shown below.

The directional icons on the map are as follows:

Table 1 – Map Icons

Icon	Definition
	Starting point
	Turn markers
	Highlighted route
	Ending point
	Directional indicator
	Page icon – touch to view text directions
	Segment review arrows – touch to review each segment of your directions
	Resolution adjust tool – zoom in or out

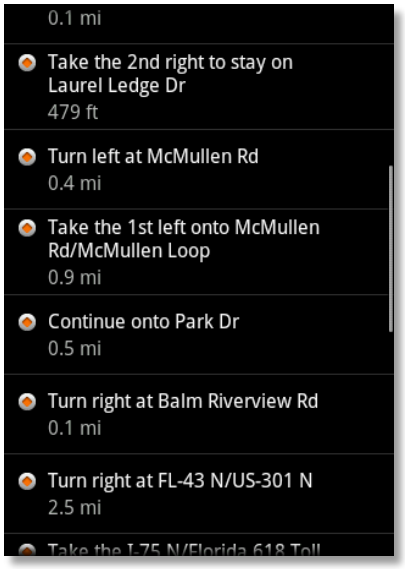
5. Use the forward and backward arrows to review each segment of your destination.

   Additionally, you can use the page icon to convert to text directions. Use the plus and minus magnifying icons to zoom in or out on the map.

> Due to handset memory restrictions, the entire set of maps may be unavailable for long routes.

6. Touch **Navigate** to view a navigation-style display on the handset screen. **Note: You must have access to Google Maps to access the Navigate option**.

7. Choose the **Page** icon to view route directions in text format. The *Directions* screen displays with text directions for the entire route.


0.1 mi
Take the 2nd right to stay on Laurel Ledge Dr
479 ft
Turn left at McMullen Rd
0.4 mi
Take the 1st left onto McMullen Rd/McMullen Loop
0.9 mi
Continue onto Park Dr
0.5 mi
Turn right at Balm Riverview Rd
0.1 mi
Turn right at FL-43 N/US-301 N
2.5 mi

8. Touch each segment of the directions to view the segment in map format.

9. When you are finished viewing the directions, press the **Back** key.

10. To view your progress along the route, press the **Back** key and continue to press the forward arrow at the bottom of the screen.

    A new route summary map displays showing your current location along the original route. The turn-by-turn maps and the directions will begin from your current location on the original route.

11. To exit the route map screen and return to the directions summary menu, press the **Back** key.

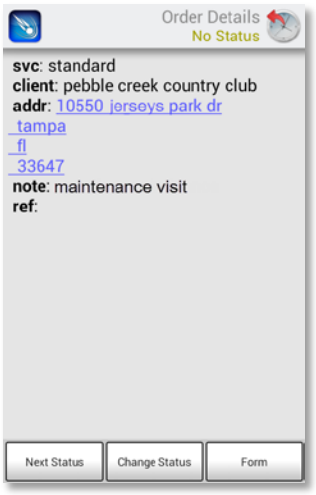
12. When you finish viewing direction screens, continue to press the **Back** key until you are at the main menu.

Using Forms with Orders

Workers can use **Orders** along with **Forms** to record additional information for an order. Form fields can be linked to an order status to allow workers to complete information that is relevant to the order's status.

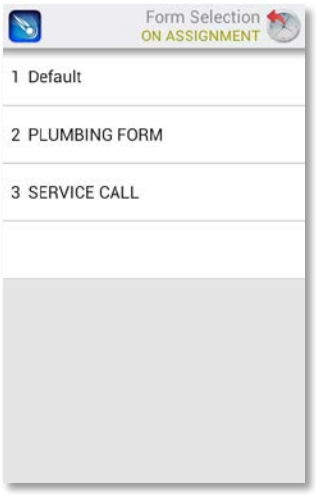
1. On the *Order* screen, select an order and display the submenu.

2. Choose **Form**.



Available forms depend on the order's status. If no forms are associated with a status, mComet displays *'No form is associated with this order status'*.

3. Choose a form for data entry.



4. Use the handset keyboard or barcode scanner to complete the information for each form field. For information on how to complete form fields using a barcode scanner, see *Using the Barcode Scanner* on page 73.

Viewing GPS Status

Use *GPS Status* to view your GPS location data. You may need to clock in to mComet first.

1. Select **GPS Status** from the main menu.

If GPS is unavailable, an error message will display: *'GPS failed – Please try again in a clear view of the sky.'*

GPS Status
ON ASSIGNMENT
Last Position:
Time: Oct 1, 2012 10:08:50 AM
Type: GPS
Sats: 6
Lat: N 27 d 51 m 23 s (27.85641 d)
Lon: W 82 d 18 m 9 s (82.30259 d)
Stored: 62
Current Time:
LCL: Oct 1, 2012 10:11:11 AM
UTC: Oct 1, 2012 2:11:11 PM
Update

2. Review the information.

3. Choose **Update** to update the data, or choose the **Back key** to return.

Table 2 – GPS Tracking Status Screen Data

Data	Definition
Last Position	Last position obtained by the handset.
Time	Time the last position was obtained, displayed in Universal Time Coordinated.
Type	The source used to determine the last position. *GPS* indicates GPS satellites and *None* indicates that the GPS is invalid.
Sats	The number of satellites used to determine the last GPS position.
Lat	The latitude of the last position.
Lon	The longitude of the last position.
Stored	The number of GPS positions currently stored on the handset.
LCL	The current local time, per the handset clock.
UTC	Universal Time Coordinated.

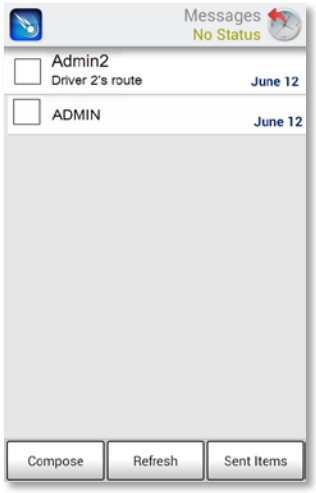
Working with Messaging

Use **Messaging** to communicate with supervisors and other workers. A star on the envelope indicates that new messages have been received.

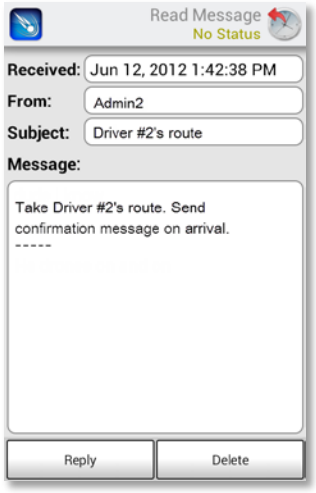
1. Choose **Messaging** from the main menu.

   Current messages in your **Inbox** will display. Choose **Refresh** to display new messages, **Sent Items** to view sent messages, or **Compose** to begin a new message.

2. Choose a message to review.



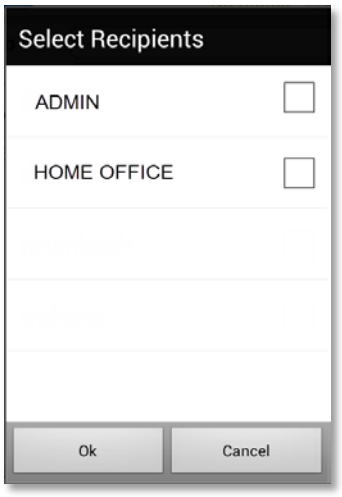
3. Review the message, as shown below. When the message is opened, a 'Read receipt' message is sent back to the sender.



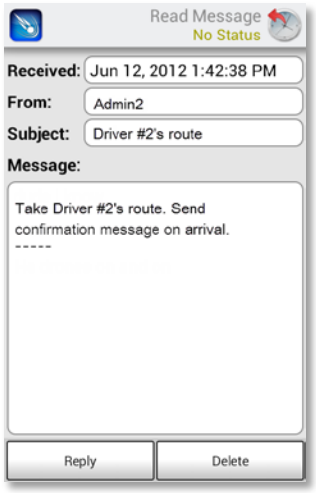
Click on any hyperlinked text in the order information and send emails, map address routes or dial phone numbers.

4. Choose **Reply** to respond, or **Delete** to delete the message. **Note: Deleted handset messages are kept on the *CT* server**.

5. Or, choose the **To** field to display a recipient selection dialog. Choose one or more and choose **Ok**.



6. Type a response and choose **Send**.



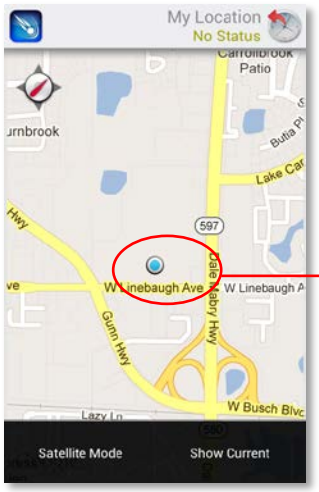
Working with Maps

Using My Location

If you are in the network coverage area, you can download and display real-time maps showing your location and the surrounding area.

1. Select **My Location** from the main menu.

   Your location is centered on the map and highlighted by a flashing bull's-eye.



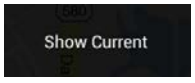
Your current location

2. To zoom in or out on the map, touch your location with thumb and index fingers together, and slowly draw them away from each other to zoom in. Reverse the action to zoom out.

Refreshing the My Location Map

Refresh the map to display an updated view of your location.

1. With a map onscreen, display the submenu and choose **Show Current** or **Satellite Mode**. (Satellite Mode will display your location using satellite maps.)



2. The refreshed map displays with your new location. Your location is centered on the map and labeled with a flashing bulls-eye .

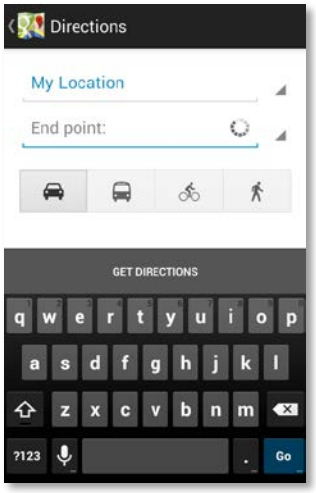
3. To exit the map, press the **Back** key.

Getting Directions

Use **Directions** to get driving directions. You must be within network coverage to view maps. Additionally, **Directions** must be enabled by **Actsoft Technical Support**.

1. Select **Get Directions** from the main menu.

2. Choose **My Location** to enter another location as the starting point. Your current location is the default value in this field. Select from a bookmarked location, or use the keyboard to enter an address.

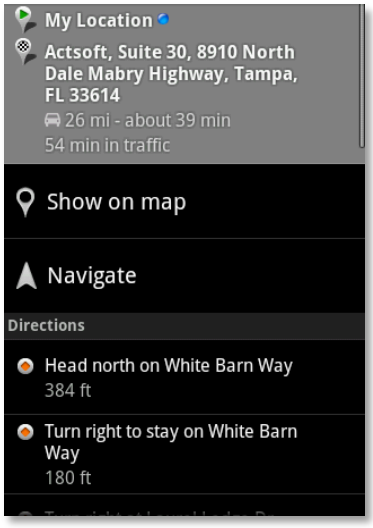


3. Select **Ending point** to enter an address or select from a list of bookmarked addresses.

4. Choose the mode of transportation – car, bus, bike or walking, and select **Go**.

mComet returns with the **Search Results** summary page:

- Search Results
  - Current location, Destination, Number of miles/Estimated travel time
- Show on map (select this to see the route on the map)
- Navigate (available only if you have access to **Google maps**)
- Directions (turn-by-turn text directions from the location specified)


My Location
Actsoft, Suite 30, 8910 North Dale Mabry Highway, Tampa, FL 33614
26 mi - about 39 min
54 min in traffic
Show on map
Navigate
Directions
Head north on White Barn Way
384 ft
Turn right to stay on White Barn Way
180 ft

5. Choose **Show on Map** to view a summary map, as shown below.

The map icons are as follows:

Table 3 – Map Icons

Icon	Definition
	Starting point
	Turn markers
	Highlighted route
	Ending point
	Directional indicator
	Page icon – touch to view text directions
	Segment review arrows – touch to review each segment of your directions
	Resolution adjust tool – zoom in or out

6. Use the forward and backward arrows to review each segment of your destination.

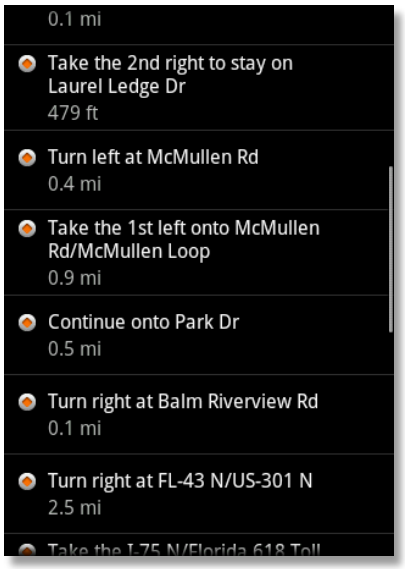
   Use the plus and minus magnifying icons to zoom in or out on the map.

   Additionally, you can use the page icon to view text directions.

> Due to handset memory restrictions, the entire set of maps may be unavailable for long routes.

7. Choose **Navigate** to view a navigation-style display on the handset screen. **Note: You must have access to Google maps to access the Navigate option**.

   Underneath **Navigate**, the **Directions** section of the screen shows route directions in text format.


0.1 mi
Take the 2nd right to stay on Laurel Ledge Dr
479 ft
Turn left at McMullen Rd
0.4 mi
Take the 1st left onto McMullen Rd/McMullen Loop
0.9 mi
Continue onto Park Dr
0.5 mi
Turn right at Balm Riverview Rd
0.1 mi
Turn right at FL-43 N/US-301 N
2.5 mi

8. You may also choose each segment of the directions to view the segment in map format.

9. When you are finished viewing the text directions, press the **Back** key.

10. To view your progress along the route, press the forward arrow at the bottom of the map screen.

    A new route summary map displays showing your current location along the original route. The turn-by-turn maps and the directions will begin from your current location on the original route.

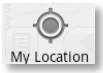
11. Press the **Back** key to exit the route map screen and return to the directions summary menu.

12. If you are finished with the directions screens, continue to press the **Back** key until you are at the main menu.

Map Submenu Options

Additionally, maps will display varied submenu options based on which map sequence you are viewing. Below are the options shown in the map submenus:

Table 4 – Map Submenu Options

Option	Action	Found on:
	Search maps for a specific location	Directions screen/Map screen
	View text directions	Map screen
	View layers of geographical information, such as transit, business locations, etc.	Map screen
	View more map options, such as Clear Map, Help, About, etc.	Map screen
	Allow sharing of your location with Google and friends that you select	Map screen
	Highlights your currnt location with a flashing blue arrow	Map screen
	Work with maps in satellite mode (using satellite maps)	Map screen
	Work with maps in the default mode	Map screen
	Show the map that corresponds to the text directions	Directions screen
	Reverse the starting and ending points	Directions screen/Map screen
	Refresh your directions based on your current location	Directions screen
	Refresh the directions to avoid highways and/or tolls	Directions screen
	Report on road conditions and incidents	Directions screen

Creating Landmarks

You can create a landmark based on any location. The landmark is stored in the database and is available on the *CT* workstation.

The landmark feature must be activated for your account by *Actsoft Comet Tracker Support.* Additionally, you may need to clock in to access this option.

1. Choose **Landmark** from the main menu.

   When the map displays, double-tap it to select a point manually. Zoom in to select a point on the map. Your location is selected by default.

   After you select a location, the **Latitude** and **Longitude** fields are populated automatically.

2. If you want to select a position that is not displayed on the map, press the **Menu** key and choose **Enable Map Pan** to move the map.

3. Select the **Name** field, and use the keyboard to enter a name.

4. Complete any additional fields displayed on the screen.

5. Choose **Done** when you are finished.

   The landmark data is sent to the application server and is available on the *CT* workstation.

Using the Barcode Scanner

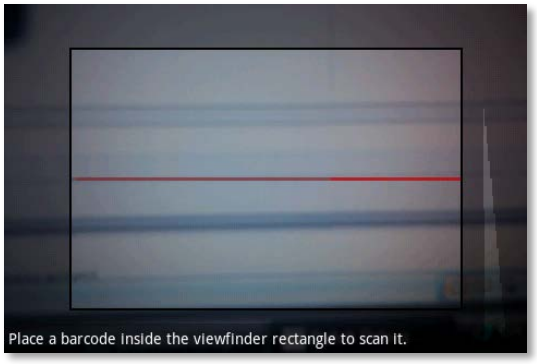
mComet uses your handset's ZXing Team barcode scanner to scan barcodes. Install the ZXing Team barcode scanner for Android devices first. When using the handset as a scanner, you do not have to manually enter data into forms.

1. Navigate to one of the four (4) screens that allow barcode scans:

   - Form/Child form
   - Clock In
   - Repeatable Form
   - Clock Out

2. Go to a form field that is configured to accept a scan, and the scanner will be invoked automatically.

3. When the screen converts to scanner mode, center the laser line inside the viewfinder rectangle on your scan. The handset will automatically scan the barcode.



Scans may be unsuccessful if the data conflicts with form field constraints.

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Glossary

Account number	An Actsoft-issued number used to access mComet on the handset.
Asset	Any object owned by a company that can be tracked, such as equipment.
Barcode scanner	A device used to scan barcodes from objects into the handset.
Child form	A subform that provides additional information about the main (or parent) form.
Comet Tracker (CT)	The suite of applications used to configure GPS monitoring and the mComet application on the handset. There are four (4) versions of Comet Tracker: • Comet EZ (Web version) • Comet Tracker • Comet Mobile Worker • Comet Tracker Lite (handset tracking only – no desktop application required)
Decision field section	A shaded area of a handset form that contains data that the user **must** respond to. Depending on the user's response, additional sections may display for completion.
Form	An mComet feature used to record and store data on the handset. A form can be set up for any type of job function (service call, delivery, customer visit, etc.). *Forms* is available only if it has been configured by your system administrator. Your system administrator creates the customized fields for data capture.
GSM	Global System for Mobile communications. GSM is a digital mobile telephony system that is widely used in Europe and other parts of the world. It uses a variation of time division multiple access (TDMA) and is the most widely used of the three digital wireless telephony technologies (TDMA, GSM, and CDMA). GSM digitizes and compresses data, then sends it down a channel with two other streams of user data, each in its own time slot. It operates at either the 900 MHz or 1800 MHz frequency band.
GPS	A satellite-based radio navigation system that consists of three segments – the satellite constellation, ground control network, and user equipment. People use GPS on their mobile devices for navigation software applications.

GPS Status	A collection of handset user positional data that consists of: • Last position • Time • Type • Sats • Lat • Lon • Stored • LCL • UTC
Landmark	A geographical location that users can mark and store in the handset for retrieval, such as an address on a delivery route.
Lat	The latitude of the handset as recorded by the satellite(s). Found on the *GPS Status* screen.
LCL	The current local time. Found on the *GPS Status* screen.
Lon	The longitudinal GPS position of the handset as recorded by the satellite(s). Found on the *GPS Status* screen.
mComet	The handset application used with the CT workstation application that allows workers in the field to communicate with the home office. mComet uses built-in GPS tracking function to gather location information at specified time intervals and transmit the resulting data to the hosted server. Use it to clock in and out of work shifts, enter information about jobs, and receive updated forms while in the field.
Panic mode	An mComet mode that tracks handset users in an emergency. mComet tracks and submits handset position information to the server at 5-second intervals. The handset will vibrate briefly when panic mode is activated.
Pin code	A user-defined, 30-character-limit numerical field that is used as a password for access to certain options. You do not have to set a pin code to use mComet.
PTN	Personal Telephone Number. When your PTN is configured in *Comet Tracker*, mComet will automatically log you on upon initial installation.
Repeatable form	A form used multiple times to enter related data. For example, multiple parts used on a service call can be entered into separate repeatable forms.
ROV	Remotely-Operated Vehicle.

Sats	The number of satellites used for pinpointing the handset location. Found on the *Tracking Status* screen.
SMS	A communication service standardized in the GSM mobile communication system, using standardized communications protocols allowing the interchange of short text messages between mobile telephone devices.
Form	A user-defined event or item added into the Form area of mComet.
Time status cycle	A linear set of user work statuses (Clocked In, Clocked Out, On Break, Off Break, On Lunch, Off Lunch) used to advance workers through their workday.
Type	The source type(s) used for the latitude and longitude. Found on the *GPS Status* screen.
User number	An Actsoft-issued number used for access to the mComet on the handset.
UTC	Universal Time Coordinated. Found on the *GPS Status* screen.
ZXing	(Pronounced zebra crossing) ZXing is the barcode image processing application developed for Android devices.

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